

(19) World Intellectual Property  
Organization  
International Bureau



24 FEB 2005

(43) International Publication Date  
11 March 2004 (11.03.2004)

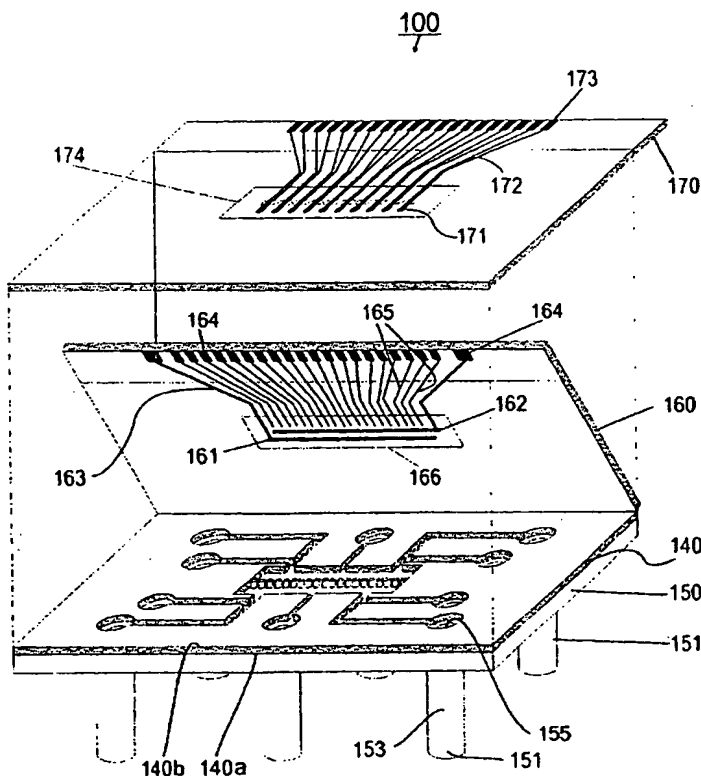
PCT

(10) International Publication Number  
WO 2004/020590 A2

- (51) International Patent Classification<sup>7</sup>: C12N
- (21) International Application Number: PCT/US2003/026798
- (22) International Filing Date: 27 August 2003 (27.08.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/406,278 27 August 2002 (27.08.2002) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:  
US 60/406,278 (CIP)  
Filed on 27 August 2002 (27.08.2002)
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- (81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

[Continued on next page]

(54) Title: BIOREACTORS WITH MULTIPLE CHAMBERS



(57) **Abstract:** A bioreactor for cultivating living cells in a liquid medium. In one embodiment of the present invention, the bioreactor has a first substrate having a first surface and an opposite second surface, defining a chamber therebetween for receiving the cells and the liquid medium. The bioreactor further has a barrier dividing the chamber into a first subchamber and a second subchamber, wherein the barrier has a porosity to allow the first subchamber and the second subchamber in fluid communication and allow at least one predetermined type of cells to permeate between the first subchamber and the second subchamber.

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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG).

- without international search report and to be republished upon receipt of that report

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